Dever letter explaining transfer of property training ()

to Elken so a to preclude neverity of hiring outside ordiction consultant to survey

instruing to all to delete instruments from

UCC reportation



15H 237 (3 80)

### DIVISION OF SAFETY AND HEALTH Radiological Health Unit

12/5/80

APPLICATION "B" FOR RADIOACTIVE MATERIALS LICENSE SEALED SOURCES (up to one curie) or DEVICES

ail original and	one copy to State of New York, De	partment of Labor, Divisio	Cartification, Item 16, must be completed him of Safety and Health Radiological Health U dipactive Materials License" issued pursuant to operate regulatory agencies now or hereafter in	statutory and implementing regularized and to any conditions specifications.	
NAME AND A	DORESS OF APPLICANT		2 ADDRESS(ES) AT WHICH RADIOACTIV	VE MATERIAL WILL BE USED (	
P.O. Box 4625 Roya					
			•		
NATURE OF E	BUSINESS	ţ,	4 PREVIOUS LICENSE NUMBER(S) AND ISSUING AGENCY. (IF YOU HA EVER BEEN DENIED A LICENSE OR IF YOUR LICENSE HAS EVER B REVOKED OR SUSPENDED DESCRIBE DETAILS ON ADDITIONAL SE		
Research a	and development on ferm	roalloys	-		
DEPARTMEN'	T TO USE RADIOACTIVE MATERI	ALS -	6 RADIATION SAFETY OFFICER (NAME NATED IF OTHER THAN INDIVIDUAL ING AND EXPERIENCE)	AND TITLE OF PERSON DESIGNATION OF T	
Technology Department			E. J. Klesta	-	
INDIVIDUAL DEVICES):	E.J. Klesta and	FTRAINING ATTACHED OGRESS OR SCHEDULE R (DESCRIBE ON ADDITI	ONAL SHEET)	ow.	
RADIOACTI	VE MATERIALS. AND MASS NUMBER OF EACH)	B NAME OF MANUFAC	TURER AND MODEL NUMBER OF SEALE	(I E_ MILLICURIES OR C	
Cesium		(1) Sealed Source (2) Corp. Model (3)	e:{Industrial Nucleonics S-6}	(2) 100 millicuries (2) (2 sources of 5) millicuries each	
SEALED SO	unces specify numbose of u strial Nucleonics Corpo	s <b>c</b> oration Gage Mode	el LS-101 for use as level in	ndicating device	
		<u> </u>	ON BEVERSE!		
	• •	ICONTINU	ED ON REVERSE)		

RADIATION DETECTION INSTRUMENTS (COMPLETE FOR INDUSTRIAL RADIOGRAPHY WELL LOGGING OR SEALED SOURCES OR DEVICES EMITTING HIGH LEVEL BETA, GAMMA AND/OR NEUTRON RADIATION)

EMITTING HIGH CEVEL DETA, GAMMA	use su	upplementary sh	eets if necessary		
TYPE UP INSTRUMENTS	NUMBER	RADIATION	SENSITIVITY	WINDOW	USE
(Include make and model no of each)	AVAILABLE	DETECTED	RANGE (mr/mr)	THICKNESS (mg/cm²)	(Monitoring 10/14)
Ray-D-Tec Radiation Meter	1		0.1 mR/hr.	''Thin''	Surveying
American Nuclear Corp.Model	ANC-100XL	αβγ	Range:0-100 mR	/hr	
Portable Gamma Ray Spectro-	1	1	Sensitivity:	1	o Moosuring
meter, Geometrics, Inc., Mod	el GR-410	<u> </u>	~ 0.001 mR/hr.	Inapplicab	le Measuring
METHOD FREQUENCY, AND STANDARD	E LISED IN COLLE	DATING INSTRU	MENTS (LISTED IN IT	EM 10)	
Ray-D-Tec Meter: Calibrated  Is 137 calibration sources.  (C-14) operational stnadards	periodicall Meter is c	y by Hnion	Carbide Corp	Linde Div.,	in Tonawanda, NY wi mR/hr. and 20 mR/hr.
FILM BADGES AND/OR DOSIMETER PRO	CEDURES USED	SPECIFY METHO	DO OF CALIBRATING	AND PRUCESSING	G, OR NAME OF SUPPLIER
· Film badges processed monthl		, aver	~ ( Company	Clanwood	llinois
Film badges processed month!	y by K. S.	Landover, J	r. & company,	dienwood, i	
	<u></u>				<del></del> _
FACILITIES AND EQUIPMENT DESCRIBE	INFORMATION T	O BE SUBMITTE	D ON ADDITIONAL SH	IEETS	ROTECTION, STORAGE CON-
TAINERS - AREA, EQUIPMENT, ETC.					
FADIATION PROTECTION PROGRAM DE	SCRIBE THE OPE	RATING AND EM	LERGENCY PROCEDUR	RES. ESTIMATE O	F MAXIMUM AND AVERAGE
FADIATION PROTECTION PROGRAM DE: DOSE-RATE AND ANNUAL DOSE RATE T	O INDIVIDUAL	JSERS AND NON-	RADIATION WORKER	S LEAK TESTS.	MAINTENANCE AND SERVIC' '
•					
`					
<b>\</b>		-	-	<u>-</u>	
DISPOSAL OF SEALED SOURCES AND/OR DISPOSE OF SEALED SOURCES OR DEVIC	ES ETC.				
The licensee shall dispose o	of radioacti	ve material	s as waste only	by transfe	r to persons
specifically licensed or aut or other Agreement State, or	borized to	nartorm suc	h services DV I	ne industri	al commossioner,
· •					
		CERTIFICA	TICN		
THE APPLICANT AND ANY OFFICIAL EX INFORMATION CONTAINED IN THIS AP BEST OF THEIR KNOWLEDGE AND BELIE	PLICATION, INC	COTICICATE ON	PENALE OF THE APPL	LICANT NAMED I ED HERETO IS	N ITEM I CERTIFY THAT AL TRUE AND CORRECT TO TH
			APPLICANT NAMED	IN ITEM 1.	
2075					
DATE			SIGNATURE		
	-		TITLE OF CERTIFYIN	G OFFICIAL	
E —Any mivepiesantation of any material factor resocution of such license	t found to have be	en made in secution	g a licanse pursuant to th	ns application shall	Constitute cause for the suspen-

or re-ocation of such license

#### ADDENDA

- Item 7. Sealed Sources: Training and experience of user is detailed on attached resume.
- Item 13. Locations: Building Numbers 143 and 169.
  - Type Building construction: Brick and cement steel frame.
  - Fire and Security Protection: Building 169 is provided with heat and smoke-sensitive fire alarm. Both buildings contain fire extinguishers, and are under 24-hour security.
  - Storage containers area, equipment: (Building 143) Source is enclosed in a tightly capped lead bucket which emits (0.1mR/hr., and is labeled as containing radioactive material. Bucket is locked in a storage room accessible only from building exterior.
  - (Building 169) Source is stored on metal platform on upper part of furnace stack, access to which is chained-off and posted. Source is bolted to pipe, sheathed in lead tape, wrapped with wire, and labeled as radioactive material.
- Item 14: Operating and emergency procedures: The radiation sources are secured against unauthorized removal from places of storage.
  - Estimate of dose-rates: Maximum 15 mR/hr. Average annual dose-rate to user 2.5 mR. Average annual dose-rate to user 2.5 mR. Average annual dose-rate to non-radiation workers nil above background.
  - Leak tests: Sources are surveyed with portable Geiger-Muller survey meter and are tested for leakage by wipe testing at 6-month intervals.
    - Maintenance and service: None required.



OSH 237 (3 80)

# SCHOOLING YORK DESTRUCTION OF LABOR DIVISION OF SAFETY AND HEALTH Radiological Health Unit

12/5/80
PHachment III

APPLICATION "B" FOR RADIOACTIVE MATERIALS LICENSE
SEALED SOURCES (up to one curie) or DEVICES

PJ (

NSTRUCTIONS Complete all items use supplemental priginal and one copy to State of New York, Deliy, 10047. Upon approval of an application, the authority and subject to all applicable rules, regulation.	partment of Labor, Division		tatutory and implementing regul.
he liconse			
NAME AND ADDRESS OF APPLICANT		2 ADDRESS(ES) AT WHICH RADIOACTIVE DIFFERENT FROM ITEM 1)	MATERIAL WILL BE USED (IF
Elkem Metals Company P.O. Box 1344 4625 Royal Avenue Niagara Falls, NY 14302		a a a a a a a a a a a a a a a a a a a	, -
	•	-	
NATURE OF BUSINESS	(i	4. PREVIOUS LICENSE NUMBER(S) AND IS EVER BEEN DENIED A LICENSE OR IF REVOKED OR SUSPENDED, DESCRIBE D	100K FICEISSE DAS E 151 02
Research and development on ferr	oalloys	•	
DEPARTMENT TO USE RADIOACTIVE MATERI	ALS -	6. RADIATION SAFETY OFFICER (NAME A NATED IF OTHER THAN INDIVIDUAL U ING AND EXPERIENCE)	SER, ATTACH RESUME OF TR
Technology Department		-	-
INDIVIDUAL USERS (NAME AND TITLE OF PER DEVICES):  HECK ONE: DEVICES CERTIFICATE OF PER DEVICES TRAINING IN PR	• TRAINING ATTACHED OG RESS OR SCHEDULES	AS REQUIRED D, CERTIFICATE OF TRAINING TO FOLLOW	
SEALED SOURCES OTHER	(DESCRIBE ON ADDITH	ONAL SHEET) TURER AND MODEL NUMBER OF SEALED	C MAXIMUM ACTIVITY
R RADIOACTIVE MATERIALS (ELEMENTS AND MASS NUMBER OF EACH)	SOURCE(S).		(I E. MILLICURIES OR CU
Cesium 137	(1) Sealed Sourc (2) Corp. Model (3)	e (Industrial Nucleonics S-6)	(1) 100 millicuries (2) (2 sources of 50 millicuries each
DEVICES SPECIFY NAME OF MANUFACTUR	RER(S) MODEL NUMBER	I(S) AND PURPOSE OF USE.	
)  STALED SOURCES SPECIFY PURPOSE OF U	se.		
In Industrial Nucleonics Corpo on an induction-heated shaft f	ration Gage Mode	l LS-101 for use as level inc	dicating device

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12/5/80 Attachment II

RADIATION DETECTION INSTRUMENTS (COMPLETE FOR INDUSTRIAL RADIOGRAPHY, WELL LOGGING, OR SEALED SOUNCES OR DEVICES AND THE RESEASE OF DEVICES OF

use supplementary sheets if necessary

	030 30	, pp. 2			
TYPE OF INSTRUMENTS  (Include make and model no of each)	NUMBER .	RADIATION . DETECTED	SENSITIVITY RANGE (mi/hr)	WINDOW THICKNESS (mg/cm²)	USE (Monitoring, surveying measuring
Ray-D-Tec Radiation Meter American Nuclear Corp.Model	ANC-100XL	αβγ	0.1 mR/hr. Range:0-100 mR	''Thin'' /hr.	Surveying
Portable Gamma Ray Spectrometer, Geometrics, Inc., Moc	1	Υ	~ 0.001 mR/hr.		le Measuring
METHOD FREQUENCY, AND STANDARD	S USED IN CALIE	RATING INSTRU	JMENTS (LISTED IN IT	EM 10)	

. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS (LISTED IN ITEM 10)

Ray-D-Tec Meter: Calibrated periodically by Union Carbide Corp., Linde Div., in Tonawanda, NY wit Cs 137 calibration sources. Meter is checked prior to all surveys with 0.1 mR/hr. and 20 mR/hr. (C-14) operational stnadards.

FILM BADGES AND/OR DOSIMETER PROCEDURES USED SPECIFY METHOD OF CALIBRATING AND PROCESSING, OR NAME OF SUPPLIER.

Film badges processed monthly by R. S. Landover, Jr. & Company, Glenwood, Illinois

#### INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS

FACILITIES AND EQUIPMENT DESCRIBE LOCATION, TYPE BUILDING - CONSTRUCTION, FIRE AND SECURITY PROTECTION, STORAGE CONTAINERS - AREA, EQUIPMENT, ETC.

RADIATION PROTECTION PROGRAM DESCRIBE THE OPERATING AND EMERGENCY PROCEDURES, ESTIMATE OF MAXIMUM AND AVERAGE

DOSE-RATE AND ANNUAL DOSE-RATE TO INDIVIDUAL USERS AND NON-RADIATION WORKERS, LEAK TESTS, MAINTENANCE AND SERVICE

. DISPOSAL OF SEALED SOURCES AND/OR DEVICES. STATE WHETHER VENDOR OR LICENSED WASTE DISPOSAL SERVICE WILL ULTIMATELY DISPOSE OF SEALED SOURCES OR DEVICES ETC.

The licensee shall dispose of radioactive materials as waste only by transfer to persons specifically licensed or authorized to perform such services by the Industrial Commissioner, or other Agreement State, or as otherwise provided by Industrial Code Rule No. 38, Requirement 382

#### CERTIFICATION

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM I CERTIFY THAT ALL INFORMATION CONTAINED IN THIS APPLICATION, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

APPLICANT NAMED IN ITEM 1.

DATE \_\_\_\_\_

SIGNATURE

TITLE OF CERTIFYING OFFICIAL

TE -Any mixepresentation of any material fact found to have been made in securing a license pursuant to this application shall constitute cause for the suspens of prevocation of such license.

Altachment IL

Division of Safety and Health Radiological Health Unit Two World Trade Center New York, NY. 10047

DATE



DO NOT WRITE IN THIS BOX

Registration No
Date Registered

## REGISTRATION OF X-RAY SOURCES AND OTHER TYPES OF PARTICLE ACCELERATORS SUBMIT IN TRIPLICATE (SEE OVER FOR INSTRUCTIONS)

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TITLE

### STATE OF NEW YORK DEPARTMENT OF LABOR

Division of Safety and Health Radiological Health Unit Two World Trade Center New York, N.Y. 10047

DATE



Registration No	`	
Date Registered		

## REGISTRATION OF X-RAY SOURCES AND OTHER TYPES OF PARTICLE ACCELERATORS

	TRIPLICATE	(SEE OVER FOR INSTRUCT			
	NER (Firm or Lessee)				
	etals Company INSTALLATION	ZIP CODE C	OUNTY	PHONE NO (Includ	e Area Code)
P.O.Box	1344, 4625 Royal Ave	., Niagara Falls, NY 143	02 Niagara	)	
	F FIRM IF DIFFERENT FROM A			PHONE NO (Inculd	e Area Code)
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CONFINES OF	INSTALLATION				ü
Technol	ogy Department		A TOTAL NO DE W	VORKERS EXPOSED TO	RADIATION IN
INDUSTRY	_		THIS INSTALLAT	13	
Ferroal	loys	PART OF AN INSTALLATION PREVI	OUSLY REGISTERED		NEW YORK?
DYES X	O IF YES, LIST THE REGISTR	ATION NUMBER FOR THAT INSTA	LLATION		
	QUIPMENT (USE ADDITIONAL				
a Number	i		Linit	c Purpose or Use	d No of Workers
Fixed Mobile	b Description o	f Each Radiation Producing Machine or			Exposed
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haceby pertify	that the information contained	d on this form and on any supplem	nents attached heret	o is true and correct to	the best of my
nowledge and b	pelief.				
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SIGNATURE